

CALCULATION OF MAXIMUM ELECTRICAL DEMAND

25X1A

**AT [REDACTED], BASED UPON THE
EXISTING CONNECTED LOAD**

25X1A

<u>Building</u>	<u>Connected Load-KVA</u>	<u>Demand Factor</u>	<u>Computed Demand-KVA</u>
[REDACTED]	24.12	1.00	24.12
	18.00	1.00	18.00
	10.73	0.75	8.04
	4.64	1.00	4.64
	6.35	0.60	3.81
	3.76	1.00	3.76
	5.10	0.50	2.55
	5.05	0.50	2.53
	5.00	1.00	5.00
	16.00	0.70	9.60
	1.50	0.50	0.75
	3.15	1.00	3.15
	16.00	0.70	9.60
	1.50	0.50	0.75
	2.39	1.00	2.39
	1.15	1.00	1.15
	5.68	1.00	5.68
	1.20	1.00	3.20
	2.22	1.00	2.22
	9.31	0.80	7.45
	2.52	0.80	2.01
	23.16	1.00	23.16

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<u>Building</u>	<u>Connected Load-KVA</u>	<u>Demand Factor</u>	<u>Computed Demand-KVA</u>
12. Vault			5.46
Lights	5.46	1.00	5.46
Equipment	13.64	0.90	12.25
13. Office			22.80
Lights	25.30	0.90	22.80
Equipment	20.78	0.80	16.60
Heating, etc.	6.94	1.00	6.94
14. Shop			4.04
Lights	4.04	1.00	4.04
Equipment	3.91	0.90	3.52
Heating	1.88	1.00	1.88
Guard Houses (2)	2.20	1.00	2.20
	<u>252.68</u>		<u>217.68</u>

$$\frac{217.68}{252.68} \times 100 = 0.90 \quad - \quad \text{Apparent Demand Factor}$$

$$217.68 \times 0.90 = 195.91 \text{ KVA} \quad - \quad \text{Maximum Demand based upon diversity factor of 0.90.}$$

$$\frac{195.91}{252.68} \times 100 = 0.77 \quad - \quad \text{Computed Demand Factor}$$